



Revised Draft Hanford Site Solid (Radioactive and Hazardous) Waste Program Environmental Impact Statement Richland, Washington

Volume II Appendices A through O

U.S. Department of Energy
Richland Operations Office
Richland, Washington

Cover Photographs:

- 1. Hanford workers preparing to retrieve and repackaging TRU waste drums**
- 2. Drums of transuranic waste in a retrievable storage trench**
- 3. A partial aerial view of Hanford's Low Level Burial Grounds**
- 4. Waste Receiving and Processing Facility inspection and repackaging glove boxes**
- 5. Hanford's Mixed Low-Level Waste disposal facility**
- 6. Placing TRU waste into a TRUPACT shipping container for shipment to the Waste Isolation Pilot Plant**

COVER SHEET

RESPONSIBLE AGENCY:

TITLE:

Revised Draft Hanford Site Solid (Radioactive and Hazardous) Waste Program Environmental Impact Statement, Richland, Benton County, Washington (DOE/EIS-0286D2)

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ABSTRACT:

The revised draft of the Hanford Site Solid (Radioactive and Hazardous) Waste Program Environmental Impact Statement (HSW EIS) provides environmental and technical information concerning U.S. Department of Energy (DOE) proposed waste management practices at the Hanford Site. DOE issued the Notice of Intent to prepare the EIS on October 27, 1997, and held public meetings during the scoping period that extended through January 30, 1998. The HSW EIS updates analyses of environmental consequences from previous documents and provides evaluations for activities that may be implemented consistent with the Waste Management Programmatic Environmental Impact Statement (WM PEIS) Records of Decision (RODs). Waste types considered in the HSW EIS include operational low-level radioactive waste (LLW), mixed low-level waste (MLLW), immobilized low-activity waste (ILAW), and transuranic (TRU) waste. MLLW contains chemically hazardous components in addition to radionuclides. In April 2002, DOE issued the first draft of the HSW EIS. During the public comment period that started in May 2002, DOE received a large number of comments from regulators, area tribes, stakeholders, and the public. The revised draft of the HSW EIS was prepared to address these public comments and add the ILAW scope. Alternatives for management of these wastes at the Hanford Site, including the alternative of No Action, are analyzed in detail. The LLW, MLLW, and TRU waste alternatives are evaluated for a range of waste volumes, representing quantities of waste that could be managed at the Hanford Site. A single maximum forecast volume is evaluated for ILAW waste. The No Action Alternative considers continuation of ongoing waste management practices at the Hanford Site and ceasing some operations when the limits of existing capabilities are reached. The No Action Alternative provides for continued storage of some waste types. The other alternatives evaluate waste management practices including treatment and disposal of most wastes. The potential environmental consequences of the alternatives are generally similar. The major differences occur with respect to the consequences of disposal versus continued storage and with respect to the range of waste volumes managed under the alternatives. The revised draft HSW EIS is being issued for public review and comment, after which DOE will prepare the final EIS. Dates, times, and locations for public meetings will be announced in the *Federal Register* and local media. The RODs will be published in the *Federal Register* no sooner than 30 days after publication of the Environmental Protection Agency Notice of Availability of the final EIS. DOE's preferred alternative is to dispose of LLW, MLLW, and ILAW in a single, lined facility on Hanford's Central Plateau; treat MLLW using a combination of onsite and offsite facilities; and certify TRU waste using a combination of existing and upgraded facilities onsite.

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